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Reviewer: Anne Corrigan

Timestamp: [year=2009; month=9; day=4; hr=9; min=32; sec=24; ms=78;]

Validated By CRFValidator v 1.0.3

Application No: 10582549 Version No: 1.1

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Finished: 2009-09-04 09:25:14.332

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Total Warnings: 0

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No. of SeqIDs Defined: 4

Actual SeqID Count: 4

SUBSTITUTE SEQUENCE LISTING

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The Regents of the University of Michigan
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<302> Characterization of geraniol synthase from the peltate glands of
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Asp	Ala	Ile 115	Asn	Ala	Val	Leu	Arg 120	Ser	Pro	Phe	Ser	Thr 125	Gly	Glu	Glu
Asp	Leu 130	Phe	Thr	Ala	Ala	Leu 135	Arg	Phe	Arg	Leu	Leu 140	Arg	His	Asn	Gly
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Phe	Ala	Glu 195	Ala	Arg	Leu	Arg	Arg 200	Ser	Leu	Ser	Glu	Pro 205	Ala	Ala	Pro
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Ser	Asp	His	Asp	Gly 245	Asp	Leu	Leu	Glu	Leu 250	Ala	Ile	Leu	Asp	Tyr 255	Asn

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Pro	Leu 290	Glu	Cys	Phe	Leu	Trp 295	Thr	Val	Gly	Leu	Leu 300	Pro	Glu	Pro	Lys
Tyr 305	Ser	Ser	Val	Arg	Ile 310	Glu	Leu	Ala	Lys	Ala 315	Ile	Ser	Ile	Leu	Leu 320
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	Glu 370					375					380				
385	Asn		_		390	-		-		395		_			400
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	Glu		420					425		-			430		
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Ser Ile Ile Lys Val Ala Leu Asn Met Ala Arg Ala Ser Gln Val Val 530 540

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Met Gly Asn Glu Ile Gln Thr Gly Arg Arg Thr Gly Gly Tyr Gln Pro 50 55 60

Thr Leu Trp Asp Phe Ser Thr Ile Gln Leu Phe Asp Ser Glu Tyr Lys 65 70 75 80

Glu Glu Lys His Leu Met Arg Ala Ala Gly Met Ile Ala Gln Val Asn 85 90 95

Met Leu Leu Gln Glu Glu Val Asp Ser Ile Gln Arg Leu Glu Leu Ile 100 105

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Val Glu 130	. Ile Leu	Asn Ser	Lys 135	Tyr	Tyr	Thr	Asn	Asn 140	Glu	Ile	Asp	Glu
Ser Asp 145	Leu Tyr	Ser Thr 150		Leu	Arg	Phe	Lys 155	Leu	Leu	Arg	Gln	Tyr 160
Asp Phe	Ser Val	Ser Gln 165	Glu	Val	Phe	Asp 170	Cys	Phe	Lys	Asn	Asp 175	Lys
Gly Thr	Asp Phe	_	Ser	Leu	Val 185	Asp	Asp	Thr	Arg	Gly 190	Leu	Leu
Gln Leu	Tyr Glu 195	Ala Ser	Phe	Leu 200	Ser	Ala	Gln	Gly	Glu 205	Glu	Thr	Leu
His Leu 210	. Ala Arg	Asp Phe	Ala 215	Thr	Lys	Phe	Leu	His 220	Lys	Arg	Val	Leu
Val Asp 225	Lys Asp	Ile Asn 230		Leu	Ser	Ser	Ile 235	Glu	Arg	Ala	Leu	Glu 240
Leu Pro	Thr His	Trp Arg	Val	Gln	Met	Pro 250	Asn	Ala	Arg	Ser	Phe 255	Ile
Asp Ala	. Tyr Lys 260		Pro	Asp	Met 265	Asn	Pro	Thr	Val	Leu 270	Glu	Leu
Ala Lys	Leu Asp 275	Phe Asn	Met	Val 280	Gln	Ala	Gln	Phe	Gln 285	Gln	Glu	Leu
Lys Glu 290	Ala Ser	Arg Trp	Trp 295	Asn	Ser	Thr	Gly	Leu 300	Val	His	Glu	Leu
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465	Glu				470					475					480
	Cys	Thr	Ile	Leu 485	Arg	Leu	Ala	Asp	490	Met	Gly	Thr	Ser	Leu 495	Asp
GLu	\/a	T	_	~ 7	_		_	_	~		T	~	_		_
C 1 -			500				Pro	505					510		
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Pro Ser Arg Trp Asp Val Asn Phe Ile Gln Ser Leu Leu Ser Asp Tyr 65 70 75 80

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95

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Ala Glu Arg Val Ser